Any Dkt. No.; IRVN-601DIV2 USSN; 09/875,823

LISTING OF THE CLAIMS

No claims are amended herein. The claims are provided below for the Examiner's convenience.

1. - 30. (Canceled)

- 31. (Previously presented) A method of stimulating an anti-tumor immune response or treating a neoplastic disease, comprising administering to a subject a composition comprising: a cell expressing a cytokine from a recombinant polynucleotide, wherein the cytokine is stably associated in the cell outer membrane, and wherein the cell has been inactivated to prevent proliferation.
- 32. (Previously presented) The method of claim 31, wherein the cytokine is selected from IL-4, GM-CSF, IL-2, TNF-α, and M CSF.
- 33. (Previously presented) The method of claim 31, wherein the cell is a cancer cell.
- 34. (Previously presented) The method of chain 31, wherein the cell is from a tumor of the same tissue type as a tumor in the subject.
- 35. (Previously presented) The method of claim 34, wherein the tumor is an ovarian cancer or a brain cancer.
- 36. (Previously presented) The method of claim 31, wherein the cell is allogenoic to the subject.
- 37. (Previously presented) The method of claim 31, wherein the cell is histocompatibly identical to the subject.

Atty Dkt, No.: JRVN-001DIV2 USSN: 09/875,823

- 38. (Previously presented) The method of claim 31, wherein the composition further comprises a tumor-associated antigen, and wherein the combination of the cytokine and the tumor-associated antigen in the composition is effective in treating a neoplastic disease or eliciting an anti-tumor immunological response in the subject.
- 39. (Previously presented) The method of claim 38, wherein the tumor-associated antigen is obtained from a cell autologous to the subject.
- 40. (Previously presented) The method of claim 38, wherein the tumor-associated antigen is expressed by the same cells expressing the membrane-associated cytokine.
- 41. (Previously presented) The method of claim 38, wherein the composition comprises a combination of:
 - a) the cell expressing the membrane-associated cytokine; and
 - b) a tumor cell autologous to the subject; wherein the combination is effective in treating a neoplastic disease or eliciting an anti-tumor immunological response in the subject.
- 42. (Previously presented) The method of claim 41, wherein the tumor cell is a primary tumor cell dispersed from a solid tumor obtained from the subject.
- 43. (Previously presented) The method of claim 41, wherein the tumor cell is a glioma, a glioblastoma, a gliosarcoma, an astrocytoma, or an ovarian cancer cell.
- 44. (Previously presented) The method of claim 41, wherein the tumor cell has been inactivated by irradiation.
- 45. (Previously presented) The method of claim 31, wherein the cell expressing the membrane-associated cytokine has been inactivated by irradiation.

Atty Dkt. No.: IRVN-001DIV2 USSN: 09/875,823

- 46. (Previously presented) The method of claim 31, wherein the cell produces a secreted cytokine in addition to the cytokine stably associated in the outer membrane.
- 47. (Previously presented) The method of claim 31, wherein a majority of the cytokine produced by the cell is present on the outer membrane of the cell.
- 48. (Previously presented) The method of claim 38, wherein the cytokine is selected from 1L-4, GM-CSF, 1L-2, TNF-α, and M-CSF.
- 49. (Previously presented) The method of claim 31, wherein the composition comprises at least two cells, each of which has been genetically altered to produce a different cytokine at an elevated level, or is the progeny of such a cell, and wherein each cytokine is stably associated in the outer membrane of the cell.
- 50. (Previously presented) A method of stimulating an anti-tumor immune response or treating a neoplastic disease, comprising administering to a subject a composition comprising a tumor associated antigen and a population of cells expressing a transmembrane cytokine, wherein the cells have been inactivated to prevent proliferation, and
 - a wherein the composition is effective in stirrulating an immune response to the tumor associated antigen in the subject,
- 51. (Previously presented) The method of claim 31, wherein the cell is a human cell.
- 52. (Previously presented) The method of claim 31, wherein the cytokine naturally occurs as a membrane cytokine.
- 53. (Previously presented) The method of chaim 31, wherein the cytokine is a fusion protein comprising a heterologous transmembrane region.

Atty Dkt. No.: IRVN-001DIV2 USSN: 09/875,823

- 54. (Previously presented) The method of claim 31, wherein the cell has been transduced with a retroviral expression vector, or is the progeny of such a cell.
- 55. (Previously presented) The method of claim 31, which is a method for printing an anti-tumor immune response.
- 56. (Previously presented) The method of claim 31, which is a method for boosting or maintaining an anti-tumor immune response.
- 57. (Previously presented) The method of claim 31, which is a method for treating a peoplastic disease.
- 58. (Previously presented) The method of claim 31, further comprising providing the cytokine expressing cell that is present in the composition.
- 59. (Previously presented) The method of claim 38, further comprising providing the tumor associated antigen that is present in the composition.
- 60. (Previously presented) The method of claim 31, further comprising transducing a cancer cell with an expression vector encoding the membrane-associated cytokine.
- 61. (Previously presented) The method of claim 31, wherein the cytokine is 11.-4.
- 62. (Previously presented) The method of claim 31, wherein the cytokine is GM-CSF.
- 63. (Previously presented) The method of chain 31, wherein the cytokine is M-CSP.
- 64. (Previously presented) A method of stimulating an anti-tumor immune response or treating a neoplastic disease, comprising administering to a subject a composition containing an

Atty Dkt. No.; IRVN-001DIV2 USSN: 09/875.823

allogencie cell genetically altered to produce a cytokine at an elevated level, or the progeny of such a cell, wherein the cytokine is stably associated in the cell outer membrane.

- 65. (Previously presented) The method of claim 64, wherein the cytokine is selected from IL-4, GM-CSF, IL-2, TNF-α, and M-CSF.
- 66. (Previously presented) The method of claim 64, wherein the cell is from a tumor of the same tissue type as a tumor in the subject
- 67. (Previously presented) The method of claim 64, wherein the composition further comprises a tumor-associated antigen, and wherein the combination of the cytokine and the tumor-associated antigen in the composition is effective in treating a neoplastic disease or eliciting an anti-tumor immunological response in the subject.
- 68. (Previously presented) The method of claim 67, wherein the tumor-associated antigen is obtained from a cell autologous to the subject.
- 69. (Previously presented) The method of claim 67, wherein the tumor-associated antigen is expressed by the same cells expressing the membrane-associated cytokine.
- 70. (Previously presented) The method of claim 67, wherein the composition comprises a combination of:
 - a) the cell expressing the membrang-associated cytokine; and
 - b) a tumor cell autologous to the subject;
 - wherein the combination is effective in treating a neoplastic disease or eliciting an anti-tumor immunological response in the subject.
- 71. (Previously presented) The method of claim 70, wherein the tumor cell is a primary fumor cell dispersed from a solid tumor obtained from the subject.

Any Dkt. No.: 1RVN-001DIV2 USSN: 09/875,823

- 72. (Previously presented) The method of claim 64, wherein the cell expressing the membrane-associated cytokine has been inactivated to prevent proliferation.
- 73. (Previously presented) The method of claim 64, wherein the cell expressing the membrane-associated cytokino has been irradiated.
- 74. (Previously presented) The method of claim 64, wherein the cell is a human cell.
- 75. (Previously presented) The method of claim 64, wherein the cytokine naturally occurs as a membrane cytokine.
- 76. (Previously presented) The method of claim 64, wherein the cytokine is a fusion protein comprising a heterologous transmembrane region.
- 77. (Previously presented) The method of claim 64, which is a method for stimulating an immune response.
- 78. (Previously presented) The method of claim 64, which is a method for treating a neoplastic disease.